

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shinji Nishimae et al. Art Unit : 1796
Serial No. : 10/561,048 Examiner : Gregory Listvoyb
Filed : December 14, 2005 Conf. No. : 3964
Title : Method For Production Of Fluorinated Phenylenediamine

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION OF UNDER 37 C.F.R. § 1.132

I, Yasunori Okumura, hereby declare that:

1. I am an inventor of the subject matter described and claimed in the above-identified application, which relates to a method for the production of fluorinated phenylenediamine.
2. I understand that an Office Action dated November 13, 2007, is outstanding in the present application.
3. I or others performed the following task:

In a 1 liter three neck flask, 160 g of water and 26.93 g (168 mmols) of 25% NaOH were placed and cooled to 0°C. 127.22 g (210 mmols) of 12.29 % NaClO was added to the cooled solution. Upon completion of the addition, the contents were again cooled to 0°C. To the cooled solution, 17.93 g (71 mmols) of 5-chloro-2, 4, 6-trifluoroisophthalamide, obtained from Synthesis Example 2 of the Specification, was gradually added to the solution. The solution temperature was kept below 5°C during the addition. Upon completion of this addition, the mixture was stirred for one hour. While stirring, the temperature was kept below 5°C. After one hour, 400 g of water was added to the mixture. The temperature was then raised to 60 - 70°C and the mixture stirred for one hour. After one hour, the mixture was cooled to 30°C. Upon cooling, the pH of the mixture was adjusted, by addition of 25% NaOH, until it reached a pH of 9. 300 g of toluene was then added to this mixture. This new mixture was stirred for 15 minutes to effect the extraction of the desired product. After 15 minutes, stirring was stopped and

the mixture was left standing for 10 minutes for phase separation. The upper toluene layer was then collected and solvent removed with an evaporator. 10.61 g of a reddish brown solid was obtained (yield 66.0%).

4. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully Submitted,

Date: February 5, 2008

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